



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application of:

Claire A. CAJACOB *et al.*

Art Unit: 1637

Appln. No.: 09/233,218

Examiner: Young J. KIM

Filed: January 20, 1999

Atty. Docket: 16517.231

For: **Nucleic Acid Molecules and Other
Molecules Associated with the
Tetrapyrrole Pathway**

AMENDMENT AND RESPONSE

Commissioner for Patents
Washington, DC 20231

Attn: Box Non-Fee Amendment

Sir:

In response to the Office Action mailed August 14, 2002 (Paper Number 24)
("Office Action"), Applicants submit the following amendment and remarks:

IN THE SPECIFICATION

Please delete the paragraphs at page 30, lines 1 through 18 and replace them with
the following paragraphs:

DI
The present invention also provides a substantially purified maize or soybean
glutamyl-tRNA reductase enzyme or fragment thereof encoded by a first nucleic acid
molecule which specifically hybridizes to a second nucleic acid molecule, the second
nucleic acid molecule having a nucleic acid sequence selected from the group consisting
of a complement of SEQ ID NO: 290 through SEQ ID NO: 306 and SEQ ID NO: 586
through SEQ ID NO: 609.

The present invention also provides a substantially purified maize or soybean
glutamyl-tRNA reductase enzyme fragment thereof encoded by a nucleic acid sequence